

## **ABSTRACT**

The present invention provides systems and methods of printing contact lens molds in an inert atmosphere for use in manufacturing tinted contact lenses. Disclosed herein are inert atmosphere chambers and isolation shutters that are capable of quickly opening and closing to permit printing of contact lens molds in such a fashion that prevents migration and entrainment of air into the inert atmosphere chamber. Contact lens mold printing systems are also disclosed that are useful for printing contact lens molds in an inert atmosphere.